

Amendments to the Specification:

Please add the following new paragraph beginning at page 6, line 38:

-- Figure 4 depicts a high level flow diagram of a process according to an embodiment of the present invention. --

Please replace the paragraphs beginning at page 11, line 12, with the following rewritten paragraphs:

-- Figure 4 depicts a high level flow diagram of a process according to an embodiment of the present invention. According to the invention, the method for allocating a channel, when deploying CPM (step 400), is presented according to the following steps:

- Determine the type of CPM of the channel which is to be allocated a channelisation code (step 402);
- When allocating a channelisation code for a channel that deploys CPM that needs reallocation (e.g. SF/2 method), select the available code with the lowest code index, hence starting from the left side of the primary (or secondary ~~secondary~~) code tree (step 404);
- When allocating a channelisation code for a channel that deploys CPM which does not need reallocation (e.g. using HLS method), select the available code with the highest code index, hence starting from the right side of the ~~the~~ primary (or secondary ~~secondary~~) code tree (step 406).

One skilled in the art will understand that using the left- or right side, represented respectively by lowest- and highest code indexes, of the code tree will be arbitrary as long as the two distinguished ~~distinguished~~ CPM type channels are located starting at opposite outer branches of the code tree.

According to this method, channels deploying CPM which need reallocation (such as SF/2) will, according to the strict reallocation rules presented above, only be reallocated to the left alternative code tree as long as the original location resides in the

left side of the primary (or secondary ~~secondary~~) code tree, hence only one alternative code tree for these reallocated channels is in use.

As a result of the code placement according to the invention, when there are sufficient codes available for normal traffic, in most practical cases only two code trees (a primary and its left alternative) instead of three code trees will be in use.

As a further embodiment of the invention, that further exploits the benefit of allocating less code trees, the general concept is represented by the insight that: when normal mode traffic requires a secondary code tree (step 408), allocate channels that deploy CPM without the need for reallocation (such as HLS) to channelisation codes on an alternative code tree, associated to codes that are currently in use for HLS channels in the primary (or secondary ~~secondary~~) code tree (step 410).

In case of code shortage, channels which deploy CPM without need for reallocation (such as HLS), share an alternative code tree with normal mode users (step 412), decreasing the number of code trees in use (in most practical cases from four to three, hence one primary and two alternative code trees) . This further embodiment again decreases the mutual interference, and therefore increases the capacity of the system.

—

Please amend the Abstract. A clean copy of the Abstract is attached.

A channel, which needs to be allocated a channelisation code, is determined on its type of CPM method to be deployed, where a channelisation code is selected according to a code-allocation strategy where there is a channelisation code selected from a list with candidate channelisation with distinction between channelisation codes for channels which do need reallocation during CPM and channelisation codes for channels that do not need reallocation during CPM. Downlink channels within an implementation of a Code Division Multiple Access (CDMA) system, e.g. a Wideband CDMA system, are allocated to channelisation codes in a primary or secondary code tree, each tree having its own scrambling code. During Compressed Mode (CPM), channels which need

reallocation during CPM are reallocated to one of the alternative code trees related to the primary or secondary code trees, depending on their original channelisation code in the primary or secondary code tree. ~~According to the invention a method and a system are presented where a channel, which needs to be allocated a channelisation code, is determined on its type of CPM method to be deployed, where a channelisation code is selected according to a code allocation strategy where there is a channelisation code selected from a list with candidate channelisation with distinction between channelisation codes for channels which do need reallocation during CPM and channelisation codes for channels that do not need reallocation during CPM.~~